

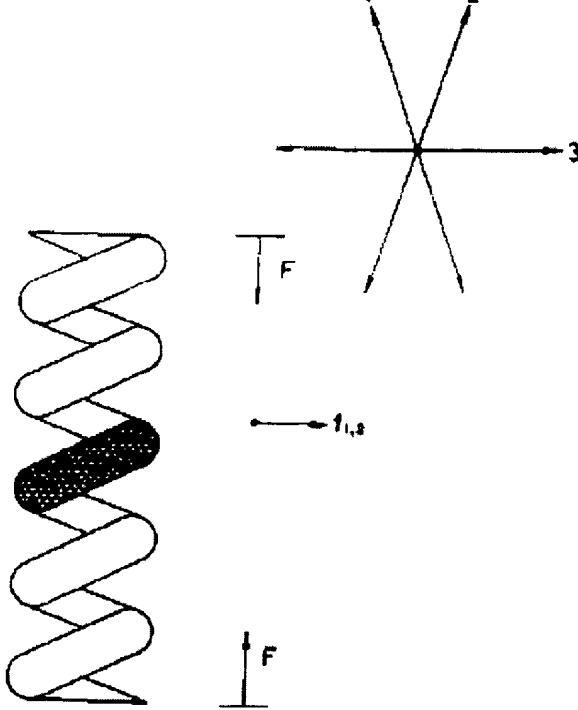
**BEST AVAILABLE COPY****COIL SPRING CONSISTING OF COMPOUND MATERIAL**

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**Publication number:** JP58091940**Publication date:** 1983-06-01**Inventor:** OKAYA KAN; HITOMI KEIICHI**Applicant:** MITSUBISHI RAYON CO**Classification:****- international:** F16F1/366; F16F1/36; (IPC1-7): B29D3/02; B32B5/00;  
F16F1/06**- european:** F16F1/366C**Application number:** JP19810189177 19811127**Priority number(s):** JP19810189177 19811127**Report a data error here****Abstract of JP58091940**

**PURPOSE:** To decrease weight of a spring and increase its shock resistance, by arranging a reinforcing material alternately at a diagonal angle while almost perpendicularly with respect to the axis of a wire body.

**CONSTITUTION:** A coil spring is formed by three-axis arranged braided cords formed by strings 1-3. As a result, in case of applying force F to the direction of an axial line of the coil spring, force f1 or f2 is acted in a torsional direction to a wire body. Then the direction of f1, f2 is almost aligned to the arranged direction of the strings 1, 2 to fully display counter force. However, in case of instantaneously excessive force acting on the axial line of a coil, a wire body forming the coil is mutually contacted to frequently cause a case in which the force F on the axial line of the coil is directly applied. However, the force F is loaded to the string 3 and shock resistance can be obtained.




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